

Table P-2: U.S Greenhouse Gas Inventory Source Categories Based on Tier 1 Approach

IPCC Source Categories	Direct GHG	2000 Emissions (Tg CO <sub>2</sub> Eq.)	Key Source Category Flag?	Criteria <sup>a</sup>	Comments
<b>Energy</b>					
CO <sub>2</sub> Emissions from Stationary Combustion - Coal	CO <sub>2</sub>	2,030.1	✓	L, T	All years
CO <sub>2</sub> Emissions from Stationary Combustion - Oil	CO <sub>2</sub>	640.7	✓	L, T	All years
CO <sub>2</sub> Emissions from Stationary Combustion - Gas	CO <sub>2</sub>	1,162.9	✓	L, T	All years
CO <sub>2</sub> Emissions from Stationary Combustion –	CO <sub>2</sub>	+			
<b>Geothermal</b>					
CO <sub>2</sub> Emissions from Natural Gas Flaring	CO <sub>2</sub>	6.1			
Non-CO <sub>2</sub> Emissions from Stationary Combustion	CH <sub>4</sub>	7.5			
Non-CO <sub>2</sub> Emissions from Stationary Combustion	N <sub>2</sub> O	14.9			
Mobile Combustion: Road & Other	CO <sub>2</sub>	1,503.2	✓	L, T	All years
Mobile Combustion: Road & Other	CH <sub>4</sub>	4.1			
Mobile Combustion: Road & Other	N <sub>2</sub> O	55.7	✓	L	All years
Mobile Combustion: Aviation	CO <sub>2</sub>	196.5	✓	L	All years
Mobile Combustion: Aviation	CH <sub>4</sub>	0.2			
Mobile Combustion: Aviation	N <sub>2</sub> O	1.9			
Mobile Combustion: Marine	CO <sub>2</sub>	89.9	✓	L, T	All years
Mobile Combustion: Marine	CH <sub>4</sub>	0.1			
Mobile Combustion: Marine	N <sub>2</sub> O	0.6			
Fugitive Emissions from Coal Mining & Handling	CH <sub>4</sub>	61.0	✓	L, T	All years
Fugitive Emissions from Oil & Gas Operations	CH <sub>4</sub>	138.2	✓	L, T	All years
Indirect CO <sub>2</sub> Emissions from CH <sub>4</sub> Oxidation	CO <sub>2</sub>	26.3	✓	T	
International Bunker Fuels <sup>b</sup>	Several	101.2	✓	Q	
Non-Energy Use of Fossil Fuels <sup>b</sup>	CO <sub>2</sub>	409.6	✓	Q	
<b>Industrial Processes</b>					
CO <sub>2</sub> Emissions from Cement Production	CO <sub>2</sub>	41.1	✓	L	Level in 1991, 1993 - 1997
CO <sub>2</sub> Emissions from Lime Production	CO <sub>2</sub>	13.3			
CO <sub>2</sub> Emissions from Other Industrial Processes	CO <sub>2</sub>	107.6	✓	L, T	All years
CH <sub>4</sub> Emissions from Other Industrial Processes	CH <sub>4</sub>	1.7			
N <sub>2</sub> O Emissions from Adipic Acid Production	N <sub>2</sub> O	8.1	✓	T, Q	
N <sub>2</sub> O Emissions from Nitric Acid Production	N <sub>2</sub> O	19.8			
PFC Emissions from Aluminum Production	PFCs	7.9	✓	T	
SF <sub>6</sub> Emissions from Magnesium Production	SF <sub>6</sub>	4.0			
SF <sub>6</sub> Emissions from Electrical Equipment	SF <sub>6</sub>	14.4	✓	T, Q	
HFC, PFC, and SF <sub>6</sub> Emissions from	Several	7.4	✓	Q	
<b>Semiconductor Manufacturing</b>					
Emissions from Substitutes for Ozone Depleting Substances	Several	57.8	✓	L, T	Level from 1997 - 2000
HFC-23 Emissions from HCFC-22 Manufacture	HFCs	29.8	✓	L, T	Level in 1990, 1992, 1996, 1998
<b>Agriculture</b>					
CH <sub>4</sub> Emissions from Enteric Fermentation in Domestic Livestock	CH <sub>4</sub>	123.9	✓	L, T	All years
CH <sub>4</sub> Emissions from Manure Management	CH <sub>4</sub>	37.5	✓	L, Q	Level in 1995
N <sub>2</sub> O Emissions from Manure Management	N <sub>2</sub> O	17.5			
Direct N <sub>2</sub> O Emissions from Agricultural Soils	N <sub>2</sub> O	217.8	✓	L	All years
Indirect N <sub>2</sub> O Emissions from Nitrogen Used in Agriculture	N <sub>2</sub> O	79.8	✓	L	All years
CH <sub>4</sub> Emissions from Rice Production	CH <sub>4</sub>	7.5			
CH <sub>4</sub> Emissions from Agricultural Residue Burning	CH <sub>4</sub>	0.8			
N <sub>2</sub> O Emissions from Agricultural Residue Burning	N <sub>2</sub> O	0.5			

<b>Waste</b>						
CH <sub>4</sub> Emissions from Solid Waste Disposal Sites	CH <sub>4</sub>	203.5	✓	L, T	All years	
CH <sub>4</sub> Emissions from Wastewater Handling	CH <sub>4</sub>	28.7				
N <sub>2</sub> O Emissions from Wastewater Handling	N <sub>2</sub> O	8.5				
CO <sub>2</sub> Emissions from Waste Incineration	CO <sub>2</sub>	22.5	✓	T		
N <sub>2</sub> O Emissions from Waste Incineration	N <sub>2</sub> O	0.2				

+ Does not exceed 0.05 Tg CO<sub>2</sub> Eq.

<sup>a</sup> Qualitative criteria.

<sup>b</sup> Emissions from these sources not included in totals.

Notes: Sinks (e.g., LUCF, Landfill Carbon Storage) are not included in this analysis. The Tier 1 approach for identifying key source categories does not directly include assessment of uncertainty in emissions estimates.